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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,089	12/11/2003	Jiping Sun	67,114-003	7957
26096 CARLSON, G	90 08/02/2007 SKEY & OLDS, P.C.		EXAMINER	
400 WEST MAPLE ROAD			CHAWAN, VIJAY B	
SUITE 350 BIRMINGHAM, MI 48009			ART UNIT	PAPER NUMBER
	•		2626	
			MAIL DATE	DELIVERY MODE
•			08/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·	Application No.	Applicant(s)			
	10/734,089	SUN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Vijay B. Chawan	2626			
The MAILING DATE of this communication ap		th the correspondence address			
Period for Reply	V 10 05T TO 5VDID5 - 11				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MON e. cause the application to become AR	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. & 133)			
Status					
1) Responsive to communication(s) filed on					
_	· · · · · · · · · · · · · · · · · · ·				
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to I	by the Examiner.			
Applicant may not request that any objection to the	- · · · · · · · · · · · · · · · · · · ·	, ·			
Replacement drawing sheet(s) including the correct					
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreigr a) All b) Some * c) None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).			
1. Certified copies of the priority documen	ts have been received.				
2. Certified copies of the priority document					
3. Copies of the certified copies of the price		received in this National Stage			
application from the International Burea					
* See the attached detailed Office action for a list	t of the certified copies not	received.			
Attachment(s)		•			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 2 recites the limitation "FNDS" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1-4 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-4 define non-statutory processes because they merely manipulate an abstract idea (mathematical algorithm) without a claimed limitation to a practical application. The disclosed invention has a practical application in the technological arts (e.g. knowledge support and flexible natural language dialog system); however, the claimed process, is a series of steps to be performed on a computer using a mathematical algorithm.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Maes et al., (US 2003/0088421 A1).

As per claim 1, Maes et al., teach a knowledge support system that deals with knowledge search requests and provides effective feedback to dialogue control comprises: a knowledge representation database; a generalization algorithm and a similarity matching algorithm for associative searching among a network of conceptual relations; and a search algorithm to map knowledge database search requests to relevant information items (0046, 0071, 0085, 0116 - 0126)

As per claim 2, Maes et al., teach the knowledge support system of claim 1, further including: a flexible dialogue act engine algorithm to control the effective flow of information between the individual components of the FNDS (0046, 0071, 0085)

As per claim 3, Maes et al., teach the knowledge support system of claim 2, wherein the flexible dialogue engine algorithm comprises an interpretation algorithm to apply general dialogue act rules to various situations of a multi-turn conversation and to

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make effective use of the knowledge base as well as the context information (0046, 0071, 0085)

As per 4, Maes et al., teach a context information management algorithm and system comprising: at least one attribute-value data structure for storing useful information of the conversation in progress; at least one dialogue act rule set that is applied on the combination of context information structure and the conceptual structure; a communication channel between the context information structure and the dialogue control unit (0046, 0071, 0085).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see form PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vijay B. Chawan whose telephone number is (571) 272-7601. The examiner can normally be reached on Monday Through Friday 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vijay B. Chawan Primary Examiner Art Unit 2626

vbc 7/31/07 VIJAY CHAWAN
PRIMARY EXAMINER